DR-1239 11 May 82

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METEOROLOGICAL DATA REPORT

12823A LANCE Missile Number 5356 Round Number 375-MCT 11 May 1982

by

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Program Support Coordinator
Phone Number (505) 679-9563
AVN Number 349-9568

ATMOSPHERIC SCIENCES LABORATORY WHITE SANDS MISSILE RANGE, NEW MEXICO





HEITED STATES ARMY ELECTRONICS COMMAND

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US Army Electronics Research & Development	Cmd 11 May 1982
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19. KEY WCRDS (Continue on reverse side if necessary and identify by blo	ck number)
20. ABSTRACT (Continue on reverse elde if necessary and identity by blook  Meteorological data gathered for the launch Missile Number 5356, Round Number 375-MCT a	ing of the 12823A LANCF.

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#### INTRODUCTION

12823A LANCE, Missile Number 5356, Round Number 375-MCT, was launched from Don, White Sands Missile Range (WSMR), New Mexico, at 0815 MDT, 11 May 1982. The scheduled launch time was 0815 MDT.

#### DISCUSSION

Meteorological data were recorded and reduced by the White Sands Meteorological Team, Atmospheric Sciences Laboratory (ASL), White Sands Missile Range, New Mexico. The data were obtained by the following methods:

#### 1. Observations

- a. Surface
- (1) Standard surface observations to include pressure, temperature ( $^{O}$ C), relative humidity, dew point ( $^{O}$ C), density (gm/m $^{3}$ ), wind direction and speed, and cloud cover were made at the Don Met Site at T-O minutes.
- (2) Monitor of wind speed and direction from one anemometer was provided in the launch control room.
  - b. Upper Air
- (1) Low level wind data were obtained from a RAPTS T-9 pibal observation at:

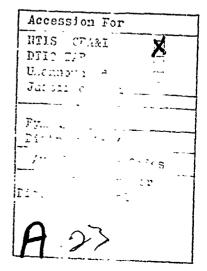
#### SITE AND ALTITUDE

#### DON 3660 Meters

(2) Air structure data (rawinsonde) were collected at the following Met Sites:

#### SITE AND TIME

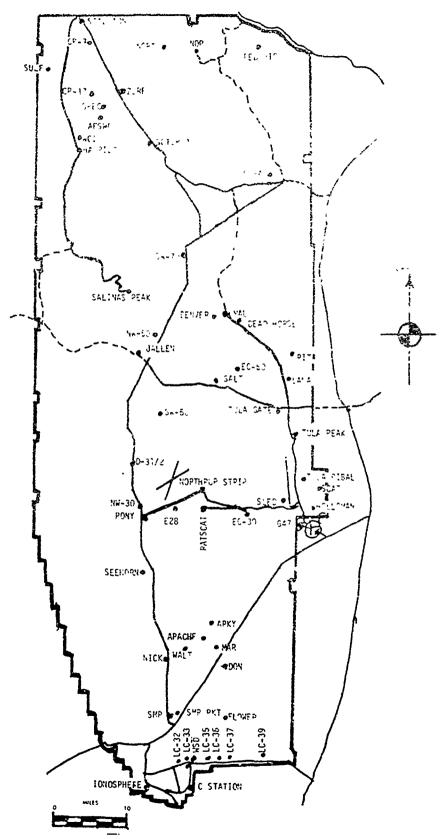
JALLEN 0620 MDT (PRELIMINARY DATA) WSD 0805 MDT (LAUNCE AREA DATA) HOLLOMAN 0715 MDT (MID-COURSE DATA) JALLEN 0805 MDT (IMPACT AREA DATA)



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	Į.	<	DEGREES (	14.6	11.0	6.2	1.3	6.6-	6.4-	-10.3	-15.2	21.2	-27.8	-35-7	0.44-	-51.0	-59.4	-59.1	-61.8	-63.9
i msl.		PRESSURE GEOPOTEHITAL	FLLT	4797.	6467.	8219.	10056.	11999.	14066.	16280.	18673.	21255.	•690 <sub>9</sub> ?	27166.	50055.	34568.	59237.	41977.	45123.	48804.
4051.30 FEL 0620 MDT		PRESSUME GR	MILLIPAKS	0.058	0.00a	156.0	707-0	0.359	0.009	550.0	500.00	0.004	0.004	350.0	306.0	0.042	0·002	175.0	156.0	125.0
5121100 2211105 4051-50 FELT MSE 11 1.47 52 0620 MDT ASCENSION 100 39																				

AT CLAST ONE ASSUMED RELATIVE HULL 11Y VALUE AND USED IN THE THIS POLICE, IN WIND DATA HUVALID DUE TO MISSING RAW AZIMUTH AND ELLVALION A 1012 S.

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vEUDLTIC COOKUTHATES 52.40043 LAT DEG 100.37033 LON DEG			
4.14.2	Krt. HUM. PLRCLNT	2	
711 1. LV.LV.LV.LV.LV.LV.LV.LV.LV.LV.LV.LV.LV.L	TEPPERATURE AIR DEWPOINT GREES CENTICKALE	4 C C C C C C C C C C C C C C C C C C C	
SIGHT TO 12 PHILE TABLE - 7	TEI.PE AIR UEGKEL <sup>S</sup>	1100.00 110	145.3
7	GEOMETIALC ALTITUDE MSL FEET	3949.0 4461.1 4866.8 5931.4 6264.5 11100.3 11100.3 11228.6 1129.6 12317.2 18797.9 20321.7 27823.0 27823.0 29205.6 3464.6 3464.6 3465.3 40952.3 40952.3 40952.3 40952.3 40952.3 63635.6 63635.6 63635.6 641163.6 641163.6 641163.6	87410.1 91892.7
STATION ALIITUDE 3989.00 FLLI MSL 11 NAY 62 ASCLHSION NO. 202	PRESSURE	675.3 660.0 610.0 673.6 61	20.0 20.0 16.7

UTUA	196.57955 194 916	Track A OP YEF PAGE 13 DE	1.100259			7.000245		1.6000233	1.0002.9	1.000261	1.000217	1.000213	1.000210	1 • 000205	1.000200	1.000195	1. [55] · 1	1. 100185	٠ ~ ٠		1.000176		1.606176	• -4		1 - 1001.03	1.000130	1.000154	1.(1000).1	851150-1	3411.70.1	1.000143	5 * 3 * 10 * 5 * 5 * 5 * 5 * 5 * 5 * 5 * 5 * 5 *		106134
1 100.30	30.	Li Serte RROTS	<i>∞</i> 6	• • •	~	~ 5	÷.	11.0	7 ° '		5.51	21.6	0.47	7.6	70.1	D * 37	)	2.7.	2.02	70.7	1 1	9.9		. :	32.0	****	•	; • <del>c</del> ;		• • • • •					
		LIM DATA LIM CITAL DATA LICHTOSTAL K	1200	152.0	38c.55	617.1	1.017	21.1.2	*****	) • <del>1</del> 1 3	47300	70117	2000	3	D + OC 3	つ・シウン			7 * 4 > 5	1.6	7:2	۲۰۱۱۰۶		. 17.0	· 1 · · 1	•	• • • • • • • • • • • • • • • • • • • •	5.5.	٠. ٠. ٠	) · )	** ; * ;				
24   A		50030 50030 81015	0.290	1.500	4.200	6.000 6.400	558 · 4	5.760	7 - 650	2	0.790	94949	6.120	ສ•ດກຸດ	5.0 to	ນ : ການ ການ :			041.0	2.000	6.060	6./60	2.000	2000	4.5.1	1.000	5.630	0.0,	1.00	a. 1 / 1 / 2	0.1.5	\$ * \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			017.1
UFP. R. ALIC CA. I 13100cm UC 11111. JANDS	TABLE-8	ULASTY S UNZCHBIC METER	1054+0	1031.5	1017.	1605. 989.	973.1	960.4	4.746	321.6	909.3	897.0	6.484	h•1/8	1.758	641.4	814.0	801.9	2007	776.1	760.5	7. 15.	731.0	720.0	709.9	3.6 <sub>10</sub> 0	1.080	٠٠٥/٠ <u>٠</u>	0•14c	0.00 0.00	7 * 0 100	635.g	615-	0.000	Ç • 0·3¢,
٦	•	REL.HUM. PLRCLHT	30.0	28.0	28.3	20.0 20.0 20.0	30.2	30.6	0.16	01.0	52.1	32.5	32.9	29.4	0.00		20.5	20.5	21.0	21.1	٠. د د د د د د د د د د د د د د د د د د د	C•12		21.6	21.7	21.8	21.a	5.5	21.6	0.02 0.03	1.4.b	18.6	7	18.7	1900
75H 1		IEMPLRATURE K UEMPCINT LES CENTIGRADE	0.0	1-5-1	6•2-	9.5	1.4-	-5.7	10.6	13.0	9.6-	-10.0	-11.6	-13·c	16.5	1000		6.02-	-21.4	-22.	2.53.	1 · 1 · 1	1.021	F • 03 -	-27.	7.92-	9.62-	-30·n	-31.0	:: • · · · · · · · · · · · · · · · · · ·	1.1.5	135-1	2.00	138.4	-500-
19.00 FLLT 0805 MPT		TEMPI ATR DEGREES	15+5 2*5	10.4	15+3	14.0	14.3	11.0	, x	? · · · ·	5.7	t) • t)	3•1	₩.	÷ ;	) • L	;	6	-2.1	3.2	3 · 5 ·	0 • 0 •	-7.3	0.8-	-10.0	-11.5	-12.3	-13.4	-14•5	C • 6.]	2.0[.	-17-1	3.01	/ • O < -	•
1131 UL 398		PRESSURE FILE LOARS	875.3	859.4	844.1	314.2	795.4	784•3	7,007	744.	720.0	4.017	0.20	5000	0.0	2000	2.463	627.1	615.2	600+3	9•165	T • 000	6.7.3	547.0	550.4	520.1	510.9	0000	h • 0.6 h	2 - 2 2 - 2	7.57	2 • O O D	444.4	4 3 C + 13	424.4
51411014 ALTITUL 3789+0 11 MAY 82 651 ENGLISH 202	ASCENDION	GEOMETRIC ALITIUDE MSC FEET	3989.0	4500.0	0.0003	0.0000	5.00ch	0.000/	9 - 13 OC /	0.0000	0.0006	6.00046	0.00001	10500.0	1100011	11300.0	12500.0	15000.0	13500.0	14000.0	14500.0	151.00	100001	16500.	17000-6	17500.0	0.00034	6.00ca1	0.00061	0.0000	11.00002	0.0000.	71500+0	22000-5	22500.0

COUNDING	31033 CON DEG	INDEX OF REFRACTION	1.000130	1.000128	1.000123	1.006121	1.000119	1.000117	1.000114	1.000112	1.000110	1.000108	1.900100	1.000104		1.000100	1.000098	1.000097		1.000095		1.00000	1.000000	300000	1 - 00000 4	1.000082	1.00000		1.000077	1.060075		1.000075	1.000071		1.000048	1.000006	1.000004	1.000005	1.000061
00001110 02.40	•	11A 5PCEU 1540TS	50.0		54.5	57.3	ð•09	0.50	65.8	66.5	66.7	9.70	8 · 8 ·	70.8	72.2	71.6	71.2	71.2	73.2	16.1	76.2	76.3	70.5	77.	762	74.1	20.6	9·99	63.5	b•00	29.5	56.7	6.65	61.8	62.3	63.7	61.3	58.6	9.00
		"IMECTION S DEGREES (14) N	7.407	A-00A A-00A	C.30.	230.5	4.007	0.76.7	2.047	24100	242.5	40.5	1.44.42	2.447	2.447	0.442	T • n n >	74.0.4	747	O•()+√	20%	3.007	7.007	1.003	4.000	250.0	234.1	0.462	C+11+7	7.11,7	5.T.F.2	242.42	1.042	74740	3.040	0.0 h2	0 • C † Z	^	7 * * * 1
۲۳۱ ه ا ا ا ا ا ا	nt'd	SYLEO OF SOUND NIFO	014.3					1.000							593.2								584.5			577.1		570.4	2.470		B • 7 CG		570.3	570.1	509.9	2,072	2/11-1	70.	570.0
UPPER AIK DATA 151802.UZUZ VHITE SANDS	TABLE-8 cont'd	LENSITY SM/CUBIC NETER	576.1	564.2	0.455	542.0	530.1	54.0	507.5	7.661	9.164	486.0	474.4	460.2	456.1	450.1	O • T ti ti	435.0	D • 0 & 8	2.014 2.014	410.0	403.6	D • 356	20.00	37 / 25	360.5	354.6	354.2	340.4	530.1	132.1	325.7	310.0	511.0	303.7	295.0	280.1	281.	275.4
		REL HUM. PERCENT	19.6	19.9	20.5	20·4	50.5	20°5	50°0	21.0	21.0	21.0	17.3**	5	#+9•h																								
FELT MSL MDT		EARF RATURE DEWPOINT ES CLATIOMADE	-41.2	-42.1	1.44-	145.0	146.0	0.72	6-84-	6.04-	-51.0	-52.0	9.45-	-59.1	106.4																								
89•1:10 FE.1 0805 MDT		TEAP AIR DEGREES	9.42.	-25.9	-26.3	-29.5	-30.7	-4461	-34-3	-35.5	-36.7	-37.9	5 (C)	2.04-	F+11+3	71.2.4					ก•/±:		9 4 5 5 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 4 4 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6		-53.2	-54.1		-50.0	-500-8	-1.7.7	4.83						-58.5	6.0G=
Upr. 39.		PRESJURE	412.5	404.1	581.3	379.1	371.1	350.5	340+0	340.5	534.2	320.9	310.8	311.8	304.9	290.1	291.0	264.8	276.4	1.7/2	2000	\$ 000 000	4 + 0 50 4 + 1 50 6 1 5 5 6 7 6 7 6 7 6 7 6 7 6 7 6 7 6 7 6 7	2 2 2 2 2 4 2 4 2 4 2 4 2 4 2 4 2 4 2 4	7 · 17 · 17 · 17 · 17 · 17 · 17 · 17 ·	231.3	225.8	220•5	210.4	210.5	200.4	500.6	190.43	191.1	2	182.1	`	173.5	169.4
STAFION ALIII 11 MAY 82 ASEE 65101 MO.		GEUNETKIC ALITIUE MSL FELT	<3500.5	0.00042	0.00002	25500.0	2.00092	7.0002	0.0057	0.00082	28500 · B	0.00062	0.00962	2000000	0.00000	31000.0	31500.0	2500050	32500.1	0.00000	0.00000	0.00040	04000.0	2550000	0.00000	200000	0.0007c	0.005/5	0.000000	0.00000	0.00060	5950000	40000	40200.0	000	41500.0	0.00024	42500.9	1,0000.

AT LLAST OUE ASSUMED RELATIVE HUMINIY VALUE "AS U. LA IN THE INTERPOLATION.

ara construction of the co

vercertic Compliantes 22-rougs EAT EEG 196-27033 EOH OEG	1110£ X O1 PEF KAC 11011		1.001000	1.000059	1.00001	1.000000	1.0000094	1.000055	250000-1	TCDDOD*T	0000001	1.000043	1.000045	1.000045	1.000044	1.000043	1.000043	1.000001	1.000040	1.00000	1.00005	1.000.7	1.000056	1.000005	1.000033	1.000032	1.000032	1.0000.1	1.0000 50	1.0000 10	1.000069	1.0000.3	1.00000.8	1	1.0000.0		(, ade	1.0000.	1.000064	1.0000
74 Cpc 110	4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		5.55 5.55 5.55	1.50	1,3,4	15.50	(, • / <,	~ * * * * * * * * * * * * * * * * * * *				6.4.7	6.0.0	3.00	2.00	65.46	9.44	67,0	40.4	1.00	\$ •60	7 - 00	0.10	≎ = .	3.00	0.00	11.2.7	0.25	7 . 7	7 + 1	5.5	D : 0 : 0 : 0 : 0 : 0 : 0 : 0 : 0 : 0 :	7		 -		? :	ι. Ε	-	11.
	THO DADA LUCKLESCHOLL		7 • 4:4:7	2.0.3	1 + C + 7 ?	C+14.7	6.44.7	C+142	7 - 1 - 7	7 7 7	4 6 7 5 7	/ • 1/4. /	3.04	2.25	0.00	か・つかり	(1.79.7	1 . 1 11,79	1.1000	2.46	0.6.5.7	7 * * * * * * * * * * * * * * * * * * *	6.0.7	カ・リナン	(,0),	(+04)	7.4.	2.54.7	0.013	20 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1.11	3.00	, , , ,	1 + 7 ( )	1.16.	7.450.7	3	7 • ( ) .		. , , ,
۱۵۰۱۸ ۱۶۰ ۱۳۰۱ ط	SFLEEU OF JOURD KNOTS		509.00	5.69.	1201	309.5	570.5	6.604	0.600	0.000	0.000	7 1000	1.099	505	504.0	5.409	563.5	554+4	565+5	6.09%	201.50	567.3		269.5		571.0	6.024	570+1	¿ . 11.76.	4.500	0.000	2000	0.66.6	,t:8.5	, , , , ,	( . (, .)(,	20034	130,04	٠. عر	9.00
UPPER AIR DAIA 1310020202 WHITE SANDS	of astre s om/conto METER	;	269.5	2692	257.4	250.0	245.0	236.4	V	22.4	213.1	21.5.4	208.7	204.1	199.0	105.2	191.0	185.7	180.4	175.	170.9	160.7	6.201	157.0	140.5	165.4	102.4	139.4	130.4	135.0	130.3	150.7	1.55	121.5	0.014	110.7	114.0	111.5	198.0	10.5.19
2	REL MUM. PERCENT																																							
3805 MUT MSL	IT MPFRATURE AIP DEMPOLIT DEGREES CENTIGRADE	,	€.C.3.	-59.0	ŏ•65 <del>1</del>	-59.6	-58.7	200.0	159*0	7 - GO	1 20.00	101 101 101	162.0	-62.5	-63.0	-63•4	-63.9	163.2	-62.3	-61.4	-61.2	-61.1	9.091	#*651	1.25-	-57.8	-58.4	0.63-	-59.6	160.3	2.09-	2.6S-	1:0:1	-60.44	٠,	(-29-	-6.2+13	162.8	-62.8	-62•B
11100L 398	PRESJURE MILLIONRS		165.5	101.4	15/.5	155.7	150•1	140+4	1 2 2 4	1 411	150.75	129.6	120.5	125.4	120.4	117.5	114.7	111.9	109.2	100.5	104.0	101.5	0.00	7.06	92.1	89.9	81.8	80.1	82•6	8J•n	73.7	71.6	6.67	74.1	C•2/	9.0/			C•19	0++9
577110N ALITUDE 3989.00 11 NAY 62 ASCENSION NO. 202	GEUNLTHIC AL: 11UDE MSL FELI		•	J•300b4	•	9.0004+	٠	40000+	6.0000	•	48000.0			49500.0	500000	0.00404	51000.0	0.00614	52000.0	52500.0	D.00000	0.5500.0	6.00040	04500•U	55500	⊕•0009¢,	56500 · 0	0,000,0	0.00676	000000	58500.3	0.00060	0.00066	0.00000	0.00000	0.00010	0.1500.0	0.00020	ŭ•00cZo	0.5000±0

DET IC COOMDINATES 32-40043 LAT DEG 106-37033 LON DEG	INULX OF REFRACTION	1.000023		1200001	1.0000	1.00000	0.00000.1	1.000019		1-000018	1.000017	1.00017	•	1.000016	1.000010	.0000	•000n	1.000015	10000	1.000014	.00001	.00001	1.000015	7100001	1.000012	1.000012	1.00001	1.000011	1.000011	1.0000.1	1.000010	1.000010	1.000010	1.000009	1.000009	1.000009	1.000009
04.00£11c 32.41 100+3	JA SPLEU NNOTS	6°6	2 5	- J	7 A	 	1.2	6.	÷	1.5	5.6	3.6	٠ <del>:</del>	5•3		٠. د . د .	<b>3</b> •	3 S	2.7	9.3	10.4	11.4	21.0	*	1.0	2	0.0	8.4	7.0	6.1	75.4	15.2	16.9 18.7	20.0	20.1	•	8°61
	"IRECIJON S	1/3.0	2 7 7 7 7	7.7.7	7	2.00	C.10.2	210.5	410.5	100.01	100.5	105.1	100.0	100.0	2007	2.0.4	٠٠٠٩ ١٠٠٠	7 · 0 / 1	7.17	6000	V./3	0./0	T • 6.9	7.50	40.5	70.0	6.021	1001	175.9	0.50×	0.612	<1.41.2	2,4,0	24310	0.022	7.5.7	ロ・ファフ
نه ۱۸ د د د اط	SPELO OF SOUND NNOTS	560.1	7.00	7.776	0.770	1.7.5	5.7.3	57,000	574.0	5/4.5	575.0	577.0	575.4	579.6	579-6	579.9	5500-1	2.023	2000	580.7	6.095	1.199	2.18c	# Too	2 - 1 8	541.0	560.6	5.80 · 4	6.613	57.9.4	579.8	240.5	7•185 2010-1	1.166	5085	. • Jac	5.c.p.c
11,19,2,8,11, 2,11,4 13,100,20,0, 1,HITE SANDS TABLE-8 CONT'd	LENSITY CHZCUDIC MLTER	102.2		***	2	82.5	87.0	0.48	02.1	80.0	70.4	70.5	74.1	74.1	70.4	66.7	1./9	から から から	0 · 3 · 3	61.0	54.0	5·0.5	3.0°	ก•ก ก•ก	1 3 · \	7.15	50.0	0.60	3.0	117.4	40.0	7.04	40.00 ****	4.50	6 ° O n	34.9	39.0
→ F-	REL.Mum. Percent																																				
)5 MDT MS1	TEMPERATURE AIK DEWPOINT GREES CLNTIGRADE	15=5 15=5 15=5	)		0 + 10 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	10-10 11-10	)	3.3	-56.1	55.7	-54.8	-53.8	-52.7	-51•R	-51.7	151.5	19104	151.0		6.05-	-50.8	-6,0.7	٠,٠٠٠	C • O · I		1.00°	6.03-	-51.2	-51.6	-51.9	-51.7	.,,,,,	9.01.1 9.01.1	2.03-	8.64-	4.64-	0.64-
الاد عه،هو 08 مح	FRESSURE NILLIDARS DE	. 5.70 5.07			700			ε.	ນຸ									. /•T#					30.3						٠.				20°5 10°5		٥. د د	5.7	
STATION ALTIT 11 MAY 82 ASCENSION NO.	OEONETHIC ALIIULE MSL FEEI	0.5500.0 0.4000.0	0.000	0.00040	9.00000	0.00000	0.00000	0.7000.0	0.00670	0.00000	0.4500.0	0.00000	<b>り◆00</b> 0460	70000-0	7.0500.0	7,1000.0	7.1593+6	0.0002/	/ 5000.0	13500.0	74000.0	74500.0	0005	0.000c/	3.00007	0.000//	77500.0	70000.0	70500.0	0.0006/	79500.0	0.0000b	00500.0 01000.0	01500.0	0.00020	6-00428	0.00000

obelic combaths	106.57033 LON ULG	Incl.X Or	INE F PALTIOL	X000001			٠		٦	_	_	7	_		1.000000	1 • 00000	1.000006	1 - 16000 0100	3.00004	1.00000
טלינ. 1 , ב ב	306.	ال 12 لاس	1017	5.81	20.0	7.5	13.0	11.9	10.3	۳. ۳	7.5	3.0	10.6	· · · · ·	5 · S ·	14.5	•			
		A LINE CITY ON THE	11. Okt. 2. 1 14)	2.1.4	41.7.4	0.04.7	6.61,	· 11.	1.10,	6.1.2	⊃• + <sub>t</sub> . ¶	6.102	1 • د ۳.،	0.77.	0.012	4.6.1.4				
A1.4.	nt'd	i teo ei schii	5-013	1.083	20110	1.484.	5.000	565.7	2.04C	10000	5.195	587.0	58619	6.180	1.185	50/10	587.4	0.190	1,01,000	0.487.0
UPPER AIR UNIA 131002020 WITT SAWS	TABLE-8 cont'd	RELAHON, DÉNSITA SELEU CE PERCENT GMZCUBLE SUCHAD	MLTLR	30.0	37.1	30.5	35.5	34.4	35.0	34.6	34.0	31.5	30.5	8.6€	29.1	20.5	6-12	21.0	7002	20.1
-		REL.HUM. PLRCENT																		
MDT MSL		IEMPLICATURE AIK DEMPOINT	MILL LOAMS DEGIGES CLINITONADE	7.8t-	-16.3	6•2	-117.5	1,7.1	8·03-	-46.04	46.0	9.54-	5.•0	45.4		7.6.01	8 • 6 4.	6+4;6	9.01	•1
3989-00 0805	4	JRE Fr	17.5 UE CI						3)	•				•	•	•	•	1	2	1
111000		PRESSURE	11111			2.0.4	22.9	25	21,		20.9			19.5	741	101	78,	7.	1,00	17.
5141104 ALITIUDL 3989-00 FL: 1 #SL 11 MAY 82 0805 MDT		GEONETRIC ALITUDE MSI LELT	1 7 7 1	0.5500.0	0.0000	0.4200.0	0.00030	0.00500	0.0000	0.00000	0.000/0	0.00575	0.00000	0.00000	0.00063	0.00569	200000	90500.0	91000×	91500.0

vLUDLTIC COOKUTINATES J2.40043 LAT UEG 106-3/033 LOA DEG
FIAIDATORY LEVELS 13100-00, UL VIITE SAIDUS TABLE-9
57a11on alitiude 3989•no felt 15L 11 may 82 0805 MUT Ascension 40• 202

ATHU DATA CTAUN SPELD ESTEN) NEUTS	4.4 0.1	1.00	0.4.7	2.62	1007	2.02	2 : T	3.60	2000	71.8	/٥٠۶	50.6	59.7	51.7	2	64.40	8.9	1.4.1	1.1	1.7	٥٠٠	10.01	17.8	10.1
"THO P	174.2	224.7	230.0	250.0	4.977	210.0	7 - 7 - 7 - 7	2000 2000 2000 2000	/・//・	1.44.5	230.1	24.0	20.042	241.9	243.1	T • 11 67	0.707	221.0	100.3	185.0	81.0	4.00%	12c . u	200° 7
ne L. 210m.	∠8• 50•	34.	33.	-12		54.	, , , , , , , , , , , , , , , , , , ,		21.	ı														
TEMPERATURE IR DEMPOTAT REES CLATIGRADL	-2.c	-0.1	-11.0	-19.1	25.0	0.00	1.74	7 . 62 . 7	-48.7															
TEMP AIR DLGREES	15.8 12.3	7.7	٠. د د	. ب	ည်း ကြင်း ပြ	0 - 5	210.2	-26.5	-34.0	-42.1	-50.3	-58.7	-58.4	-58.7	-62.2	-61.1	-60.3	-62.8	1.04-	-55.6	-51.1	-52.0	0.64-	-45.3
UPOTFNIIA FELT	4803. 6479.	42.30.	10087.	12046.	14150.	10373	21.571	24205.	27324.	<b>30404</b>	54780.	.69465	42220.	453118.	49114.	536.32.	58225.	60954.	b4637.	67874.	72609.	78782	82057.	67505.
PRESSURE GEOPOTFINTIAL	800.00	750.0	0.007	6.00.	0.003	0.000	0.000	(1 · · · · · · · · · · · · · · · · · · ·	350.0	300.0	0.054	0 · :) 0 Z	175.0	150.0	125.0	100.0	0.08	0.07	0.00	0.03	0.04	36.0	0.45	0.55

\*\* AT CEAST ONE ASSUMED RELATIVE HUNTLITA VALUE "AS USEN IN THE INTERPOLATION.

STOLETC COCUMANTS STOLETCE COCUMANTS STOLETCE ST																																			
۸ .	P. R. L. HUM.	11 165	(i)	0.0,	0.5,	34.0	3	63.0	0.50	0.03	0.4,	0.4.	0.0>	7.1	D•87																				
196111 16441 11 Vel 12 14 15 15 15 15 15 15 15 15 15 15 15 15 15	H & PERATURE TR DI WPOLIA RESS CENTIONALE	2.81	1.5.0	3	÷.	0.01	-14.0	-19.0	-20.7	-47.1	-31.1	4.50-	4.5.4	1 - 12 1) -	5.05-																				
1611 163 131 100C 7ABI E-10	FEAP A LR DEGRESS	8.7	6. #1	17.1	15.8	**************************************	-	· ·	1.0.0	-13.3	-16.8	-17.0	-25.c	-35.9	+30°+	-41.t	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	3 0 1	-62.6	-61.7	-620-	16.1.5	1.0.1	8.09-	֥	# * C (1 -1	0.201	7 0 7 0 1 1	\$ - 12.5 -	2.41,-	-1,1.2	-1,1.4	-49.1	5.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00	-155.5 -155.5
NS.L.	E OF OM, TRAC ALTITODE S MSL FFLT	4126.6	9581.6	4605.4	4.2624	7557.6 10098.4	11 309.4	12101.6	15788.0	18793.7	20.337.9	21121.5	24524.2	28279.7	29821.2	50887.5	35175.7	3.6005	0.5050	44403.9	3.07.658	4/0/5•4	547/07/	53773.	55148.7	560181	0107047	0.02020	68064.6	70300.6	71874.9	75668.8	2.0907	79012.5	8/751.1
574/1001 ACTITION 4126.59 FIT 1	PRESSURE	0.16.6	7.606	1959.1	0.002	700.0	6.67.5	0.740	563.0	0.000	6.094	8.534	0*00h	536.7	314.6	0.000	G*077	0.002	173.3	158.1	150.0	1.03.1		100.0	92.to	8.38	H*0/	5°94	0.00	0 • (17)	11.8	35.0	85-8	0.00	0.87

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TABLE-10 cont'd

ofobratic coordinates seemblos LAT DEG 106.09965 LOH DEG

PRESSURE GFONETRIC TEMPERATURE REL-110M.
ALTITUDE AIR DEWPOIN: PERCENT 11 LLIUARS MSE FEET DEGREES CENTIORAGE

18.4 89625.1 -44.6

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Compacted of the Control of the Co	57a110m artittum (1120. 11 may or Ascension no. 157	0715 MDT	<b>3</b>	_	UFFER ATA CONTR 1316010107 EPFERMAN	41.75		71	The complete state of the state
100   100	PRESSURE TEMP ATE MILLIDARS DEGLES	ر ني	RALOLI OLWOTAL LOLIOKAN	RELIBINA.	JEDGATY ON CHAIC NETT R	Attenda Manage	(M) Control	100	1.22 A
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ocobelic coordinales 32.00005 LAT DEG 106.09905 LOM DEG	INDEX OF NLFRACTION	1.0001.8	3 - 1000 - 2	1.00012	1.0001	1.000119	31100011	1.00014		1.000110	1.000108	1.000100		1.000102	1.000100	1.000098	1.000001	1.000045	1.000003	1.0000.1	1.000090	1.000038	1.0000%	1.000083	1.000082	1.000000	1.000079	7.0000	1:00001	**/0000**	1 10000	7,00001	0.0000.1	1 - 010001	100000 T	200001	700000	1.000001
52.00 52.0 106.0	JPI LU NNOTS	52.5		53.3	53.9		3,000	6.00	1,4.5	1.50	4.40	0.79	2.40	53.5	050	05.0	# <del>2</del> 9	0.50 0.50	٥. د د د د د د د	1.70		0.00	21.0	3.63	3.0°C	5.7.5	(,00,	7.70	n 4	0 = 23		0.00	0.00	1.44.1				26.5
	", Ihte 1 for 3.15.	3.00	2000	7.00.7	0./03	4./57	0.76	2/63	30.0	4,50.5	1.64.3	つ・1 + 2	0.1.5	1.7.	a • T •	5 · 7 · 7	7.0.57	2.7.7	7.763	0.007	٠ . د د د د د د د د د د د د د د د د د د د		0.00%	3.173	400.7	4, 200 4	3.00°	2000			7		0.003			0.0		37
ont'd	ייין אט טדי הטלאטי הוה ה	0.10		c.10.6	0.400	4.700	0.000	0.700	0.100	599.5	0.560	0,060	5000	20.50	0.00 0.00	291.6	T • T = 1	0.000	500	5000 ×	0.000	V • V = V = V	2.11.2	579.6	570.4	577.0	0,00,0	T • • • • • • • • • • • • • • • • • • •	0.7	• • • • • • • • • • • • • • • • • • • •		0	2.000	2 100	0.000	(1 + (1 + ))		0000
U, PLR AIN UNIA 131001012/ 10LLOMMI TABLE-11 cont'd	RECENT OM/CUBIC PERCENT OM/CUBIC METER	567.3	558.3	549.4	0.044	451.0	515.1	5000	8.060	490.0	432.6	4740	465.8	7.75m	3 · A · A · A · A · A · A · A · A · A ·	7. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	3.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00			7.01.	200	30.4.	380.1	373.0	70096	354.3	3.25	1.000	7 • 6.00	2000	2		7.007	Source	0.000	2.50	, 7,	27.00
·	Reloum. Percent	25.8	26.1	26.2	26.3	200	26.7	26.8	56.9	∠7.1	3.7.5	27.8	3.34	10.20																								
I MSL	TEMPEKATUPE K DEWPOKIIT LES CLNTISKADE	-38.9	-30.0	-411.0	1.65-	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	7 ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° °	46.64	-47.4	44A+5	1: • 7. 1) -	5.00-	-55.1	z•0α₌																								
6.54 FE	TEMP AIK DEGKLES	-25.0	2.05.	-27.5	-28.B	130.1	3.7.	-35.9	-35.5	-30.4	-37.5	-38.7	-39.8	2 · C · 7 ·	\$ - T = 1	0 • > 1:	5. C.	8 - 1 - 1	5 · · · · · · · · · · · · · · · · · · ·	0 4 0 5 1			-50.5	-1,10	-54.7	-53.0	0.00		10/61	100.0	0.00	6 6 6 7		5.4.7	7	200		10.01
STAFION ALITIUNE "NIZN.54 FEIT MSL 17 MAY UZ ASCLISIUN NO. 137	PRESSURE	2 · + 0 n	390.0	307.4	379.2	371.62	555.7	340.1	340+8	355.4	320.5	514.1	512.1	2000 2000 2000	0.000	0.162	2000	0 10	1.7/2	250.0	3 176	2,13,7	249	251.0	231.6	250.5	250.0	) 1	2,012		20101	1.061	140.08	187.5	0 0	17.55		16.0.3
57451014 ALTT1 11 מאץ 82 מלבנול1טמ מ0•	GEONETRIC ALTITUL MSC FELT	C+000+2	0.005.5	0.00052	0.00002	0.00002	2,0002	47500.0	( • 0000 ° )	200000 G	C.7000 · J	29500.0	300000	0.00000	0.00010	3.00016	0.00025	6.00020	0.00000	0.00000	0.00045	35000.0	0.00000	300000	0.0000c	37000.0	0.00076	0.00000	0.00000	0.0000	0.00000	30000	0.000 ta	0.000.14	00000	0.00074	2 2 2 2 3	45500.0

AT LEAST OUR ASSUMED RELATIVE HUTTINTY VALUE "AS UTELL TO THE THIE AUTENPOLATION.

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" Hic community "	THUEN OF SEPRACTION	1.000059	1.900058	1.000656	1.000055	1.00000	7.000052	1.000001	1 - 4000649	1.000047	1.000046	1.100045	1.00004	1.000043	1.000042	1.000041	1.000040	1.00000.1	1.000052	1.000000	1.000035	1.000034	1.000034	1.000053	1.000052	1.060051	0,000,000	0000000	35.00.	1.000000	1 - 0 0 0 1 1	1.00000	1.000000	1.000060	t.Munech	1.000064	1.0006<3	1.000023
T a vio		3.5.7.5	4 · 1/c	7.	d.d.	# . 50 50	5 r	- £ - £ - £	67.8	1.700	6,6.1	2.00		3. 3.2	to 5.4	0 · , · 0	0.00	1.00		1,5,5	> 500	1.7.3	40.0	43.6	í.,		• 1	2	\	; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;	2.1.0	55	***	*, * ,	10.7	11.11	7,, [	3.3
	INC ONE CALLA	7.44.7	4.0.7	5.0.5	71 + 41 77	5.5.5	7 · 3 · 3 · 3 · 3 · 3 · 3 · 3 · 3 · 3 ·	/ • ·	6.60.3	23.4.6.	0.0%	60/00	3./03	1.007	0.3040	3.003	1 • 1 6 3	) - (	0.007	4.60.	0 • 4 0 3	7.4603	<b>5</b> • 0 5 <sup>−</sup> 7	4.11.	3.7,7				)		* * * * * *	~ * * * * *	٠	31.57	•••	4.6.73	`	· · · · ·
ont'd	10 0 11 10 OF 11 OF 11 10 OF 11 O	7.005	50000	0.000	9.000	0.000	5.005	7.000	5.000	9.000	50000	p.004	6.900	63.001963	2000	a•/oc.	5.700 100	0000	**************************************	0.70	567.5	0./00	567.5	2.gag	გამეი	2.722	7 - 5 - 5 - 5	7.000		0./07,		300	2010	50000	• •	4.000	7.033	f1 + > 1¢,
TABLE-11 con	JENSTT GM/CURIC MLTER	262.9	259.3	252.4	247.0	241.5	2.000	222.0	210.2	612.9	201,7	20	8.7.5.T	193.0	180.	(30.4)	176	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	160.1	166.3	150.0	154.9	150.9	6.011	0.001	0.6.5	>	130.1	7.00	7.47	121.4	110.7	116.0	115.0	111.	1.001	D.C.1	100.09
_	NLL.HIM. PLRCENT																																					
ь.59 Fttf иSL 715 MDT	IEMPERATURE R DEWPOINT EES CENTIGRADE		_													_											_											
26•59 F 0715 MC	IEM AIN DEGKEES	-61.9	-61.8	-62•1	-62.4	-62.1	0.101	-61.5	-61.5	-61.5	-61.5	-61.4	-61-4	-61•4	-61.4	7.19	0.00	200	9.09-	6.09-	-61.1	-61.5	-(.1.0	ا ا ا	6.65-			100	7	2000	-6.1.3	-(1.6	-61.9	16.606	-(,3.4	4.24	-(-1	0.09-
UDc. 41 137	PRESJURE MILLI <sub>DA</sub> RS	161.5	157.4	150.5	149.6	140.2	1444	135.8	134.6	129.4	120.2	123.2	120.5	11/.5	714.5	/ • T T T	1060	8440	101.3	6.06	90.5	2.46	6.16	7.48	ດ <b>/</b> ກ	C - C - X	7 7 7	77.	7 / 5	77	73.8	72.1	70.3	9•69	0 • / 9	65.4	a.∵o	02.2
5 F. F. F. F. D. A. L. I. T. T. F.	OF UNE TRIC AL LITUDE MSC PER I	0.00044	44500.0	0.00024	45500.0	0.00004	#•0000# # 7000 a	47500•0	48000.0	48506.0	0.00064	49500.0	0.0000	0.00000	0.00010	0.00010	0.000404	0.00044	53500.0	24000.0	54500.0	0.00000	3.00000	0.00000	3.00000	9.000,0	0.00000	0.0000	3.600004	59500.0	C.00001	3•00566	01000.0	0.1500.0	62000.u	0.00020	0.5000.	0.3560.6

STATION ALIIT 11 HAY 82 ASCENSION 110.	.11TUDL 412	TATICK ALIITUDL 4126.59 FFFT MSL 1 MAY 82 0715 MDT SCENSION 110. 137	J  -	Ur P. R Alk untA 1310010137 10LLОНАИ TABLE-11 cont'	LostA 1137 Contid		100L1	CLODELIC COORDINATES S2.00865 LAT DEG 100.09965 LOH DEG
GEONETRIC ALIIIUDE MSL FELI	PRLSSURE MILLIDARS	TEMPERATURE LIR DEMPOINT DEGREES CENTIGRADE	REL.HUM. PERCENT	UENSTY CMZCUBIC MLTER	SPEED OF SOUND RHOTS	"INC DAL" DIRECTION OF	IN JPLEU NNOTS	IHDEX O: KEFRACTION
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0.000.00	7	7 • £ ; ; .		7 • 66 66	>.60°.	5.703	10.7	1.00002
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0.0000		0.131		h•16		2020	6.7	1.00000
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00000		7.00		ງ•ງຄ ຄ		410.0	4.1	1.000119
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3 - 610000		######################################		۲۰61		10501	1.9	1.000018
3 • 0 0 0 0		154.5		0.97		135.1	2.7	1.00017
0.00000		の・###		70.5		152.0	3.3	1.000017
0.0000		2.50		す。 カノ		741.0	3.6	1.000017
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(5000-3		-51.2		65.4	580•4	152.4	6.4	1.000015
72500.3	•0+,	-51.2		65.7	580.4	150.4	5.1	1.000014
73000.0		-51.3		62.3	5500.3	120.5	5.7	1.000014
0.00007		-51.3		60.4	5000	122.9	0.1	1.000014
0.00047		5.1.4		3.7.0	580.5	121.4	3.3	1.000013
6.00067		-51.3		54.1	2.080	140.0	6.7	1.000013
750005	30.1 7.4.1	- 1:01 - 1:01		ລຸດ ໝີ		116.0	7.3	1.000013
76,000.0	)	5.10.1		ก • ก น		) · +OI	~ ° Ω	1.000012
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0.000/	76.5	7 * C * T * T * T * T * T * T * T * T * T		2.10	582.9	C*T1T	ر ب ب	1.000011
300000	7.77	0.65		2.00	2.720	0 • 1 • 1	/•/	1.000011
0.00007	7117	4 - 1 U 6		7.6.	1-195	) • D • T	1:	1.000011
		) • 4 C		7.0.	0.05G	10201	1.1	1.000011
0.00067	•	h•251		5 · / n	6.076	102.4	8.1	1.000011
0.0000	C. K.	1.55.1		G.04	578.4	7.067	6.0	1.000010
9.00000	20°6	0.74.		J. J.	0.876	14.0.1	4.7	1.000010
0.00000	G • 92	0.04 <u>1</u>		7 • 7 7	1.115	10/01	d•5	1.000010
3.00010	27.5	1.52.7		4°C#	570.4	1.10.1	0.0	1.900019
0.00010	· · · · · · · · · · · · · · · · · · ·	2.25		1.74	579-1	2002	7.1	1.00000
0.00025	7 o c	/•\'.\'.\'.\'.\'.\'.\'.\'.\'.\'.\'.\'.\'.\		1.14	D-6/5	44.00	8.0	1.00009
** CAC? :	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1.1.51		0.04	240.5	۲۰۰۲	7.4	1.0000019
6.90000	•	9.0%		39.0	24.1.4	0.457	3 • 3	1.000009
J • 00 45 V	5.4.4	-,0-1		10.1	6-136	7.5.7	10.3	1.000008

LOULTIC COUNTIABLES DE BASSON LAT ORG THE OFFICE	11.00.000 1.00.0000 1.00.0000 1.00.0000 1.00.0000 1.00.0000 1.00.0000 1.00.0000 1.00.0000 1.00.0000 1.00.0000 1.00.0000 1.00.0000 1.00.00000 1.00.00000 1.00.00000 1.00.00000 1.00.00000 1.00.00000 1.00.000000 1.00.000000 1.00.0000000 1.00.00000000
. 400L11	11.4 11.4 11.4 10.6 10.6 7.9 7.1
	1,1 KLC (11) 1,1 KLC (11) 1,1 C. (11) 1,1
۱۱۸ ، ont'd	500113 500113
U, PLR AIN CAIA 131001615, 1.OLLOMAR TABLE-11 CONT'G	KEL-Hum. DFHSIT: Druch July PERCENT (MYCC31C JULY) July Street Jul
<b>5</b> '	REL HUM.
1,51,	IF MPF RATURE FIR DEWPOINT LGRLES CLN I GKADE -49.0 -47.9 -47.4 -47.4 -47.4 -47.4 -47.4 -47.4 -47.4 -47.4 -47.9 -47.4 -47.9 -47.9 -47.9 -47.9 -47.9
6.59 FU 715 MDT	1Fmf f 18 DE 68UE 5 -49 • 0 -47 • 9 -47 • 9 -45 • 9 -45 • 9 -45 • 9
1111UDE 412	PRESCURES DE 20-8 - 22-3 - 22-2 - 22-2 - 21-
STALLON ALLLINDE 4126.59 FLFF 1.51. 11 MAY 02 ASCERSION 1.0. 1.57 0715 MDT	of o, LTRIL AL110bc MSL FECT 1 o400000 o5000000 o5000000 o5000000 o5000000 o5000000 o5000000 o5000000 o5000000 o6000000 o600000000000000000000

CEUDETIC COONCINATES 32.00865 LAT DEG 105.09965 LON DEG	74.1A		2.7	3.6	11.8	21.7	29.1	۲۰۰۶	0.00	64	4.7.1	55.0	0.00	0.4.8	54.40	0.00	64.3	25.55	25.7	,,,		が*カ?	10.2	6*1	3.0	0.1	G•5	
	ALAU UMI.,	,,EGKLLS(TN)	131.0	194.3	750.4	234.6	254.5	210.0	211.3	224 - 7	250.5	250.4	257.5	ロ・ソカバ	235.4	231.0	241.3	0.44.7	230.0	25%.0	255.0	239.0	70107	101.0	131.0	101.0	234.0	
	NLL • 1104 •	,	30.	51.	35.	34.	***	5 <b>8</b> •	,55	30.	24.	40،	21.															
6.81.00 TORY LLVLLS 13100 1013, HOLLOMAN TABLE-12	TEMPERATURE	DEGREES CENTIGRADL	۳·۱	-3.7	-7.0	-11.0	-18.4	-19.7	-21.5	-27.1	-33.9	-39.4	-46.1															
∠ <b>⊢</b>	•	DEGREES	16.8	12.9	8.5	3.3	J. I	-3.9	-6.3	-15.3	-18.5	-25.6	-33.6	-41.6	2.64-	-59.5	<b>4.</b> 29-	-62.4	-61.5	-60.B	-60.3	-62.0	-569-	-54.3	-51.2	-52.4	-50.7	-45.5
MSL	OPOTENTIAL	FEET	4789.	6471.	6230.	10089.	12044.	14130.	16366.	16768.	21372.	24215.	27341.	30826.	34615.	39507.	42230.	45556.	49061.	53610.	58172.	.26800	04052	67810.	72534.	78078.	82547.	87374.
STATION ALTITUDE "1286" 9 FEFT MSL 11 MAY 62 ASCENSION MO. 137	PRESSUME GEOPOTFNEIAL	MILLIBAKS	R50+0	6.008	750 · u	700.0	0.069	0.000	550+0	50C+0	450.0	U•(I) h	350.0	300.0	250.0	0.002	175.0	150.0	125.0	100.0	0.00	70.0	0 • p a	0.03	G • 94,	3.0.0	0.57	20.0

DIRE ASSUMED RELATIVE HIMILIITY VALUE "AS USEM IN THE HIMIRIOLATIONS AI LEASI

CONTRACTOR CONTRACTOR

vEUDLIIC COORDINAIES 33-16712 LAT DEG 106-49511 LON DEG	
AT.,	26EL.HUM. 2ERCLNT 29.0 35.0 44.0 38.0 21.0 15.0 18.0 20.0
SIGNIFICANT LEVEL DATA, 1310030040 JALLEN TABLE-13	TEMPERATURE  IR DEWPLINI  REES CENTICKALE  1
SIGNIFICA JALL TABLE-13	TEMPE
MSL.	E GEOMETRIC ALITTUDE S MSL FEET 4051.0 4825.7 7358.2 8844.5 10096.3 10096.3 11261.8 11261.8 112757.2 14777.2 14777.2 14777.2 34772.3 36218.2 34772.3 36218.2 14757.2 14757.2 14757.2 14757.2 14757.3 39469.1 49244.7 4926.3 49069.3 49069.3 53073.3 53073.3
STATION ALTITUDE 4051.00 FEET MSL 11 may 82 0805 MDT ASCENSION NO. 40	PRESSURE MILLIBARS B74.0 B50.0 775.2

WINDHINE MENTER HEREIN CALLER WINDE HIN TO BE THE TRANSPORT OF THE PROPERTY OF

DETIC COORDINATES 33-10712 LAT DEG 106-49511 LON DEG	INUEX OF REFRACTION	1.000256		. 00002	.00024	0005	.00023		.00022	.00022	0002	.00021	1.000205	.0001	.0001	٠	-	•	•	•	•	1.000169	•	1.000163	•	•	•	1.000151	•	.00014	.00014	000	.000.	00013		1.000130
GEODETIC 33-1 106-4	SPEEL KNOTS	0.0	) ) )	0.0	12.0	13.7	15.5		21.3	23.6	26.4	29.3	32.2	34.8	34.3	33.2	32.6	31.9	30.0	7.67	3.47	28.7	29.3	31.1	33.3	30.0	2 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 -	4.00.4		Ġ.	ġ	•	• <del>•</del> •	<b>.</b> .	* .	51.1 52.8
•	WIND DATA DIRECTION SI GEGREES((N) KI	3.	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	0.002	6.202	234.B	V • V • V	1000	75027	4.722	756.0	251.0	252.4	252.0	250.5	227.1	7 - 522	220•0	212.0	3.4.0	715.1	210.5	4.612	210.1	210.0	210.7	\$ 1 × 1	223.0	÷	223.0	7-177	v,	ή.	67	5	250.9 251.0
UA1A 040	SPEED OF SOUND KNOTS	665.4		50T • 4	58.0	57.		י לי לי	651.4	464	6+2+0	•	8.449	÷	643.7	643.0	7	641.5	640.5	629.5	9.000	0.000	634.6	633.1	521.7	6500°5	0.000	620.0	624.6	623.3	651.9	<b>•</b> :	2.619	٠,	orro.	015.1
UPPER AIR UM 1310030040 JALLEN TABLE-14	DENSITY GM/CUBIC MLTER	1050.1	• • • •	4 5	992	7.	_		920.1	_	901 7	9 688	876.7	'n	9	832.7	•	•				743.5	•	721 2		699.		3 20		47	3	626.4	2	20		578.0
5 F	REL.HUM. PERCENT	26.0	•			33.6	•		42.1	•	•	•	29.9	•		19.0	•	23.6				16.4	•	16.9	- 1	17.4		8	18.3	ě	•		•	•	•	19.6
T MSL	TEMPERATURE R DEWPOINT EES CENTIGRADE	1 50 to 1	, ,	• •	าเก	•	/ • <del>   </del>	7 - 1 0 - 1	100	-7.0	0.6-	÷	-15.1	<b>50</b> •	22	-21.6	-20.6	-50.5	122.0	8.62	27.4	-28•1	-28.9	-29.7	-30.5	1010	30.00	-33.9	-34.7	-35.5	36.	-37.2	38	98.9	5	-40.6 -41.5
1.00 FEET 3805 MDT	TEMP AIR DEGKEES	16.2				11.2	•	•		•	•	1.6		•	•	i.	-1.6	75.5	0.5-	0.0		-6.8	-7.9	-9.1	-10.5	-11.5	0.00	-15.0	-16.1	-17.2	-18.4	-19.5	-50·p	-21.7	22.0	125.9
ALTITUDE 4051. 82 N HO. 40	PRESSURE MILLIDARS	874.0	8000	824.0	814.5	799.8	77	757.0	743.1	729.4	715.9	702.5	h•689	676.4	663.6	651.1	938.8	026.	8.410	0000 0000 0000	580.1	568.8	557.7	546.8	0.000	1,000	505.4	495.3	480.5	475.4	465.7	456	0	437.9	0.624	411.7
STATION ALlI 11 MAY 82 ASCENSION HO	GEOMETRIC ALIITUDE MSL FEEI	4051.0		0.000 0.000 0.000 0.000	000	500	7500.0	0.000	8500.0	0.0006	9500.0	0000	0200	1000	1500	2000	2500	15000.0	3500	14000-0	5000	5500	0009	16500.0	000/	0.000.1	8500	0006	19500 • 0	<00000×	0200	21000•0	0067	2000	0002	235005.0 23500.0

DETIC COOMDINATES 33.16712 LAT DEG 100.49511 LON DEG	INULX OF HEFRALTION	1.000128	1.000125	1.000165	1.000121	1.000119	1.000115	1,000113		1.000110	1.000108	1.000106	1.000109	1.000102	1010001	1.000097	1.000095	1.000093	1.000092		1.000088		1.000005	1.000003		1.000079	1.0000,7	1.000075	1.000074	1.000072	1.000070	1.000069	1.00006.7	1.000000	1.00000.4	1.000003	1.00000	1.000000
91 90k. Erc 33-14 196-4	1A SPLEU KROTS	3,43	5000	1,28.1	3000	24.4	0.00 0.00 0.00	0.4.0	9.49	6.97	67.1	\$ · / 0	1.80	0.00 6.00 7.00 8.00 8.00 8.00 8.00 8.00 8.00 8	7. ac	<b>5.09</b>	8.40	65.4	64.5	0.43	67.1	5.83	, ee.	7	76.5	70.8	70.1	21.6%	70.4	7,1.5	3.07		3.84	5.90	£ + 5 C	6.20	0.11	K 44 6
	WIND DAIA DIRECTION S DEGREES(IN) K	34.5	0.000	635.3	0.002	7.457	230.5	2,30.1	7.057	4.2757	2,500-1	7.007	7.007	· · · · · · · · · · · · · · · · · · ·	**0007	4.000	( . 26. 2	1.00.	5.75%	20102	20./5.7	1.10%	E 4 10 17		4.50.1	4.00.7	2001	7.4.7.2	9.17.7	T • • • •	201162	7 * 5 %	a 46.7	2.1.5	X • OC 7	4.5.	3 :	:
on ra out cont'd	SPEEU GI SOUND RNOTS	612.5	010.8	0.09.1	007.4	5000	602.4	2.000	0.663	597.4	995.9	***********	0.656						585.9	582.6	561.3	580.1	0.773	1,700	575+4	574.1	573+1	5/5.0	572.0	5/1.4	571.5	9.779	2,71.0	571.0	570+3	7.693	9.600	000340
UPPER AIR UNIA 1310039040 JALLEN TABLE-14 CONT'	DENSITY S GM/CUBI MLTER	568.8	55y 7	550 v	542,0	5255	516 7	500 S	500 5	492.5	0.484	473.0	0 to to to	2 1 2 2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	2 2 2 2	434.7	420.7	8.81.4 8.81.4	411 0	403.5		383 0	301.0	360 2		352 c	345.4		330 c	323.3	315.6	200.0				281.5	* 673	**003
- ,	REL . HUM. PERCENT	19.9	18.6**	16.2**	**6.EI	**6.11	6.8**	**:::::::::::::::::::::::::::::::::::::	2.1**																													
PDF 1 MSL	IEMPERATURE R DEWPOINT EES CENTIGRADE	4 - 24-	0 • 11 11 -	46.4	48.9	101 104 104	-58.0	-62.3	-68.7																													
	TEMF AIH Degrees	-26.1	4.72-	-28.7	-30.1	-32.7	-34+1	-35.4	-36.7	-38.0	2.65-	14C+17	41011	7-54	L+111-	-45.6	9.94-	9-14-	-48.5	0 to 1	150.0	127.	-52.0	174.1	-55.0	-56.0	-56.7	-57.2	-57.6	-58.0	157.9	70,0	6.76	•	•	000 I		
STATION ALIITUDL 4051.00 11 may 62 Ascension no. 40	PRESSURE MILLIBARS	400.03	394.9	380.5	378.3	366.3	354.6	347.0	539.7	332.4	325°1	410.0	0.000	29/•2	290.5	283.9	277.5	271.2	265.0	259.0	723.1	241.5	0.157	230 • 5	225.1	219.8	214.6	203.5	204.6	1.661	195.0	19040	0 - C - C - C - C - C - C - C - C - C -	4.797	0.//1	7/2.8	•	•
STATION ALIII 11 MAY 82 ASCENSION NO.	GEOMETRIC ALIITUDE MSL FELT	000	500.		25500.0									31000.0	31500.0	32000.0	32500.0	53000.0	0.00000	34000.0	0.00000	35500000	0.00000	36500•0	000		-	•	0.00066	•	40000	0000	0001	1500.	2000	42500.0	1500	3

AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE AND UTD TO THE ATTENDED IN

GEODLIIC COOKDINATES 33.16712 LAT DEG 106.49511 LON DEG	SPEEU INDEX OF KNOTS REFRACTION	59.1 1.000058	58.3 1.000057	57.6 1.000056	56.9 1.000054	56.4 1.000053	55.8 1.000052	55.3 1.000051	55.0 1.000050	54.6 1.000049	54.6 1.000048	54.7 1.000046	54.8 1.000045	55.0 1.000044	_	55.7 1.000042	_	-	57.8 1.000039	59.2 1.00n037	60.6 1.000037	1.000036	1.000035	1.000034	1.000035	1.000032
0 E.	LIRECTION DEGREES(IN)			231.3		~						2000								5.1.52	242.0					
UPPER AI DAIA 131003 040 JALLEN TABLE-14 cont'd	DENSITY SPLED OF GM/CUBIC SOUND METER KNOTS	<b>.</b>	255 2 570•0	249.9 569.1	244, 0 568.3	239 5 567.6	234 1 560.9	229.0 566.2	224 0 565.5	218 6 565.2		208.2 565.4	204.0 554.1	198.8 564.5		186.5 565.7		178.3 567.5				160.1 570.6				145.3 570.0
	TEMPERATURE REL.HUM. AIR DEWPOINT PERCENT GREES CENTIGRADE																									
0805 MDF	TEMP AIR DEGREES	-29.0	-29.0	-59.7	₩•09-	6.09-	-61.4	-61.9	-62.4	-62.7	-62.6	-62.5	-63.5	-63.2	-62.8	-62.3	-61.9	-61.0	-59.8	-58.7	-58.6	-58•6	-58.5	-58.4	-58•4	-58.5
TITUDE 405	PRES <sub>S</sub> URE MILLIBARS	160.7	150.8	153.1	カ・グサイ	140.8	142.3	138.8	135.5	134.2	129.0	125.9	122.8	119.8	110.9	114.1	111.3	104.6	1000	100.5	101.0	9006	96.2	0.46	91.7	84.5
STATION ALTITUDE 4051.00 FEET MS 11 MAY 62 0805 MDT : ASCENSION NO. 40	GEUMETRIC ALTITUDE MSL FELT R	0.00044	44500.0	42000.0	45500.0	46000.0	46500.0	4.7000.0	47500.0	48000.0	48500•0	0.00064	49500•0	0.00000	20200.0	21000.0	51500.0	52000•0	52500.0	\$3000°C	53500.0	24000.0	24500.0	55000.0	55500•0	26000.0

•	J : G																		
JA 1		6.4	13.7	<0.02	67.8	35.1	24.0	30.5	41.8	44.3	55.1	63.4	69.1	57.70	70.5	63.6	57.1	24.7	
Š		206.5	214.7	220.5	231.9	227.5	214.4	215.9	222.2	75627	232.0	235.0	258.0	237.7	258•0	236.4	231.9	230.0	
KEL . HUM.	PERCENI	29.	34.	41.	38.	19.	19.	17.	18.	19.	20•	5.43							
<b>,</b>		-3.0	7.4-	a•6−	-11.4	-21.5	-24.3	-29.5	-33.5	-37.8	-45.7	<b>+•09</b> -							
TEMPE	DEGREES C	14.8	11.2	9.9	1.3	-1.0	0.4-	-8.8	-14.5	-20.2	-26.6	-34.9	-43.3	-51.0	-58.0	-59.1	-60.3	-62.7	-58.7
EUPOFENTIAL	FEET	4822.	6493.	8247.	10087.	12034.	14117.	16350.	18746.	21337.	24164.	27275.	30740.	34699.	39377.	42136.	45302.	+1006+	53545.
PRESSURE GE	MILLIBARS	850.0	0.008	750.0	0.007	0.059	0.009	550.0	€00.0	0.034	0.004	350.0	300.0	250.0	200.0	175.0	150.0	125.0	100.0
	SURE GEOPOFENTIAL TEMPERATURE KEL-HUM. "IND DAT	SURE GEUPOFENTIAL TEMPERATURE KEL.HUM. AIR DEWPOINT PERCENT UIKE BARS FEET DEGREES CENTIGRADE (JEGKL	SSURE GEOPOFENTIAL TEMPERATURE KEL.HUM. with Unding the DEWPOINT PERCENT UIMECTION BARS FEET DEGREES CENTIGRADE (LEGKLES(IN) B50.0 4822. 14.8 -3.0 29. 206.5 4	ISURE GEOPOFENTIAL       TEMPERATURE       KEL.HUM.       #160 DATE         BARS       FEET       DEGREES CENTIGRADE       ()EGREES (TN)         850.0       4822.       14.8       -3.0       29.       206.5       4         800.0       6493.       11.2       -4.2       34.       214.7       13	ISURE GEOPOFENTIAL       TEMPERATURE       KEL.HUM.       #100 DA1         BARS       AIR       DEWPOINT       PERCENT       UIRECTION         BARS       FEET       DEGREES CENTIGRADE       (JEGKLES(IN)         B50.0       4822.       14.8       -3.0       29.       206.5       4         800.0       6493.       11.2       -4.2       34.       214.7       13         750.0       8247.       6.6       -5.8       41.       226.5       20	ISURE GEOPOFENTIAL       TEMPERATURE       KEL.HUM.       #100 UAI         BARS       AIR       DEWPOINT       PERCENT       UIRCLION         BARS       FEET       DEGREES CENTIGRADE       (JEGKLES(IN)         B50.0       4822.       14.8       -3.0       29.       206.5       4         B00.0       6493.       11.2       -4.2       34.       226.5       20         750.0       8247.       6.6       -5.0       41.       226.5       20         700.0       10087.       1.3       -11.4       30.       231.9       25	SSURE GEOPOFENTIAL         TEMPERATURE         KEL.HUM.         #100 UAI           BARS         AIR         DEWPOINT         PERCENT         UIRECTION           BARS         FEET         DEGREES CENTIGRADE         (JEGKLES(IN))           B50.0         4822.         14.8         -3.0         29.         20b.5         4           B00.0         6493.         11.2         -4.2         34.         214.7         13           750.0         8247.         6.6         -5.0         41.         220.5         20           700.0         10087.         1.3         -11.4         30.         231.9         25           650.0         12034.         -1.0         -21.5         19.         227.0         33	SSURE GEOPOFENTIAL         TEMPERATURE         KEL.HUM.         #INU UAI           BARS         AIR         DEWPOINT         PERCENT         UIRECTION           BARS         FEET         DEGREES CENTIGRADE         (JEGKLES(IN)           B50.0         4822.         14.8         -3.0         29.         20b.5         4           B00.0         6493.         11.2         -4.2         34.         214.7         13           750.0         8247.         6.6         -5.0         41.         220.5         20           700.0         10087.         1.3         -11.4         3b.         231.9         29           650.0         12034.         -1.0         -21.5         19.         227.5         33           600.0         14117.         -4.0         -24.3         19.         214.4         29	SSURE         GEOPOFENTIAL         TEMPERATURE         KEL.HUM.         AIRUD UAI           BARS         FEET         DEMPOINT         PERCENT         UIKECIION           B50.0         4822.         14.8         -3.0         29.         200.5         4           B50.0         4822.         14.8         -3.0         29.         200.5         4           F50.0         6493.         11.2         -4.2         34.         214.7         13           700.0         10087.         1.3         -11.4         38.         231.9         22           550.0         12034.         -1.0         -21.3         19.         227.5         34           550.0         14117.         -4.0         -24.3         19.         227.5         34           550.0         14117.         -4.0         -24.3         19.         227.5         30           550.0         14117.         -6.8         -29.5         17.         215.9         30	SSURE         GEOPOFENTIAL         TEMPERATURE         KEL.HUM.         AIRU UAI           BARS         FEET         DEGREES         CENTIGRADE         LIEGREES (TO)           B50.0         4822.         14.8         -3.0         29.         206.5         4           B50.0         4822.         14.8         -3.0         29.         206.5         4           B50.0         6493.         11.2         -4.2         34.         214.7         13           750.0         8247.         6.6         -5.0         41.         226.5         20           750.0         10087.         1.3         -11.4         38.         231.9         27.           650.0         12034.         -1.0         -21.5         19.         227.0         33           600.0         14117.         -4.0         -24.3         19.         215.9         30           550.0         16350.         -8.8         -29.5         17.         215.9         41           500.0         18746.         -14.5         -33.5         18.         222.2         41	SSURE         GEOPOFENTIAL         TEMPERATURE         KEL.HUM.         AIRU UAI           BARS         FEET         DEGREES         CENTIGRADE         LIECKLES(IN)           B50.0         4822.         14.8         -3.0         29.         206.5         4           B50.0         6493.         11.2         -4.2         34.         214.7         13           750.0         6493.         11.2         -5.0         41.         226.5         20           750.0         6493.         11.2         -5.0         41.         226.5         214.7         13           750.0         6493.         11.3         -11.4         30.         231.9         24         25           750.0         12034.         -1.0         -21.5         19.         227.0         33           650.0         14117.         -4.0         -24.5         19.         224.4         29           550.0         14117.         -14.5         -29.5         41         222.2         41           450.0         21337.         -20.2         -37.8         19.         229.2         44	ISURE GEOPOFENTIAL         TEMPERATURE         KEL.HUM.         MINU UAI           BARS         FEET         DEMPOINT         PERCENT         UIRECTION           B50.0         4822.         14.8         -3.0         29.         206.5         4           B50.0         4822.         14.8         -3.0         29.         206.5         4           B50.0         6493.         11.2         -4.2         34.         214.7         13           750.0         8247.         6.6         -5.8         41.         220.5         20           750.0         12034.         -1.0         -21.5         19.         221.9         24           650.0         14117.         -4.0         -24.3         19.         227.5         30           550.0         14117.         -4.0         -24.3         19.         227.5         34           550.0         14117.         -14.5         -33.5         18.         222.2         41           450.0         21337.         -20.2         -37.8         19.         229.2         44           400.0         24164.         -26.6         -42.7         20.         23.2         41	ISURE GEOPOFENTIAL         TEMPERATURE         KEL.HUM.         MINU UAI           BARS         FEET         DEGREES CENTIGRADE         LICKLES(IN)           B50.0         4822.         14.8         -3.0         29.         206.5         4           B50.0         4822.         14.8         -3.0         29.         206.5         4           B50.0         6493.         11.2         -4.2         34.         214.7         13           750.0         8247.         6.6         -5.8         41.         220.5         20           750.0         8247.         6.6         -5.8         41.         220.5         20           700.0         12034.         -1.0         -21.5         19.         227.9         20           550.0         14117.         -4.0         -24.3         19.         227.9         30           550.0         14117.         -14.5         -25.5         17.         215.9         414           550.0         1414.5         -37.8         19.         222.2         41           450.0         224.5         -37.8         19.         229.2         41           450.0         24164.         -26.6	SSURE GEOPOFENTIAL         TEMPERATURE         KEL.HUM.         MINU UAI           BARS         FEET         DEWPOINT         PERCENT         UIRECTION           BARS         FEET         DEGREES CENTIGRADE         LICKLES(TN)           B50.0         4822.         14.8         -3.0         29.         206.5         4           B50.0         6493.         11.2         -4.2         34.         214.7         13           F50.0         8247.         6.6         -5.8         41.         220.5         20           F50.0         8247.         6.6         -5.8         41.         220.5         20           F50.0         12034.         -1.0         -21.5         19.         227.9         23           F50.0         14117.         -4.0         -24.3         19.         227.9         41           F50.0         16350.         -14.5         -33.5         18.         222.2         41           F50.0         24164.         -26.6         -42.7         20.         235.0         63           F50.0         27275.         -34.9         -60.4         5.8.         235.0         63           F50.0         27275.         -42	SSURE GEOPOFENTIAL         TEMPERATURE         KEL.HUM.         MINU UAI           BARS         FEET         DEWPOINT         PERCENT         UIHECTION           BARS         FEET         DEGREES CENTIGRADE         LICKLES(TN)           B50.0         4822.         14.8         -3.0         29.         206.5         4           B50.0         6493.         11.2         -4.2         34.         214.7         13           F50.0         8247.         6.6         -5.0         41.         220.5         20           F50.0         8247.         6.6         -5.0         41.         220.5         20           F50.0         12034.         -1.0         -21.5         19.         227.9         20           F50.0         14117.         -4.0         -24.3         19.         227.9         41           F50.0         14.5         -24.3         19.         22.9         41           F50.0         14.5         -33.5         18.         22.2         41           F50.0         18746.         -26.6         -42.7         20.         22.2         41           F50.0         24164.         -26.6         -42.7         20.	SSURE GEOPOFENTIAL         TEMPERATURE         KEL.HUM.         MINU DAI           BARS         FEET         DEWPOINT         PERCENT         UDIRECTION           BARS         FEET         DEGREES CENTIGRADE         LEGKLES(IN)           B50.0         4822.         14.8         -3.0         29.         206.5         4           B50.0         6493.         11.2         -4.2         34.         214.7         13           750.0         8247.         6.6         -5.0         41.         220.5         20           750.0         8247.         6.6         -5.0         41.         220.5         20           750.0         8247.         6.6         -5.0         41.         220.5         20           700.0         12034.         -1.0         -21.5         19.         227.5         20           550.0         14137.         -4.0         -24.3         19.         227.5         41           550.0         14.5         -33.5         18.         222.2         41           450.0         22157.         -20.2         23.2         41           450.0         224.6         -42.7         20.         22.2         41	SSURE         GEOPOFENTIAL         TEMPERATURE         KEL.HUM.         MIND UAI           BARS         FEET         DEWPOINT         PERCENT         UIKECIION           B50.0         4822.         14.8         -3.0         29.         206.5         4           B50.0         4822.         14.8         -3.0         29.         206.5         4           B50.0         6493.         11.2         -4.2         34.         216.7         13           750.0         6493.         11.2         -4.2         34.         216.7         13           750.0         12034.         -1.3         -11.4         38.         231.9         24           650.0         12034.         -1.0         -24.3         19.         221.9         24           650.0         14117.         -4.0         -24.3         19.         221.9         41           550.0         14117.         -4.0         -24.3         19.         221.9         41           550.0         14176.         -6.8         -29.5         18.         222.2         41           450.0         2137.         -26.6         -42.7         20.         236.0         236.0 <tr< td=""><td>SSURE         GEOPOFENTIAL         TEMPERATURE         KEL.HUM.         MIND UAI           BARS         FEET         DEWPOINT         PERCENT         UIKECIION           B50.0         4822.         14.8         -3.0         29.         206.5         4           B50.0         6493.         11.2         -4.2         34.         214.7         13           750.0         6493.         11.2         -4.2         34.         214.7         13           750.0         6493.         11.2         -4.2         34.         214.7         13           750.0         6493.         11.3         -11.4         34.         214.7         22           750.0         12034.         -1.0         -21.5         19.         221.9         24           550.0         14117.         -4.0         -24.3         19.         221.9         41           550.0         14117.         -4.0         -24.3         19.         221.9         41           550.0         14115.         -20.2         -37.6         19.         229.2         41           450.0         2157.         -20.2         -34.9         -60.4         5.8.         235.0         63&lt;</td><td>SSURE         GEOPOFENTIAL         TEMPERATURE         KEL.HUM.         AIRU UAI           BARS         FEET         DEMPOINT         PERCENT         UIRECTION           B50.0         4822         14.8         -3.0         29.         206.5         4           B50.0         6493.         11.2         -4.2         34.         214.7         13           F50.0         6493.         11.2         -4.2         34.         226.5         206.5           700.0         6493.         11.2         -4.2         34.         214.7         21.3           700.0         6493.         11.3         -11.4         30.         231.9         24.7           700.0         12034.         -1.0         -21.9         19.         221.9         24.4           750.0         1417.         -4.0         -24.3         19.         221.9         44           550.0         1417.         -4.0         -24.3         19.         225.2         41           450.0         2137.         -20.2         -37.8         19.         225.2         41           450.0         2137.         -26.6         -42.7         20.         235.0         536.0</td></tr<>	SSURE         GEOPOFENTIAL         TEMPERATURE         KEL.HUM.         MIND UAI           BARS         FEET         DEWPOINT         PERCENT         UIKECIION           B50.0         4822.         14.8         -3.0         29.         206.5         4           B50.0         6493.         11.2         -4.2         34.         214.7         13           750.0         6493.         11.2         -4.2         34.         214.7         13           750.0         6493.         11.2         -4.2         34.         214.7         13           750.0         6493.         11.3         -11.4         34.         214.7         22           750.0         12034.         -1.0         -21.5         19.         221.9         24           550.0         14117.         -4.0         -24.3         19.         221.9         41           550.0         14117.         -4.0         -24.3         19.         221.9         41           550.0         14115.         -20.2         -37.6         19.         229.2         41           450.0         2157.         -20.2         -34.9         -60.4         5.8.         235.0         63<	SSURE         GEOPOFENTIAL         TEMPERATURE         KEL.HUM.         AIRU UAI           BARS         FEET         DEMPOINT         PERCENT         UIRECTION           B50.0         4822         14.8         -3.0         29.         206.5         4           B50.0         6493.         11.2         -4.2         34.         214.7         13           F50.0         6493.         11.2         -4.2         34.         226.5         206.5           700.0         6493.         11.2         -4.2         34.         214.7         21.3           700.0         6493.         11.3         -11.4         30.         231.9         24.7           700.0         12034.         -1.0         -21.9         19.         221.9         24.4           750.0         1417.         -4.0         -24.3         19.         221.9         44           550.0         1417.         -4.0         -24.3         19.         225.2         41           450.0         2137.         -20.2         -37.8         19.         225.2         41           450.0         2137.         -26.6         -42.7         20.         235.0         536.0

AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USEL IN THE INTERPOLATION.